



# EPA | HEPA | ULPA FILTERS

## ALUMINUM FRAME | CONSTRUCTION DEPTHS 68 + 88 MM | HEPA



SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Recommended final pressure drop	600 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	Extruded aluminum profile, anodized
Seal	Semicircular PU profile, endlessly foamed
Protection grids	On both sides, steel grid, powder-coated

### Application

Viledon® HEPA filters of filter classes H13 + H14 are used in intake and recirculating air filtration for cleanrooms and in laminar flow boxes with ultra-stringent requirements for clean air and sterility, e.g.

- in sophisticated air-conditioning applications (operating theatres / intensive care units in hospitals and medical institutes, pharmacies,
- sterile rooms, labs, research centers, etc.),
- in sensitive and highly sensitive industrial processes (pharmaceuticals, biotechnology, chemicals, optics, food / beverage, micro-electronics, etc.),
- in ceiling outlets and modules for flexible cleanroom systems.

### Features and benefits

- High-efficiency micro-glass-fiber papers are used as filter media.
- The MiniPleat technology employed ensures flow-friendly geometry and equidistance of the pleats, with homogeneous media velocity coupled with a very low pressure drop. This means particularly cost-efficient and dependable operation plus a quasi-laminar outflow.
- Each filter element is tested using state-of-the-art scanning equipment for arrestance efficiency and leakproofing in accordance with EN 1822, and delivered together with the corresponding test certificate.
- The frame consists of extruded, anodized aluminum and is extremely solid and moisture-resistant.
- Viledon® HEPA filters are microbiologically inactive and meet all hygiene requirements of the German VDI Guideline 6022 "Hygiene requirements for HVAC systems and units".
- Easy handling and mounting thanks to high twist strength.
- Protection grids on both sides made of powdercoated expanded metal.

### Delivery notes

All standard sizes are packed in watertight foil and a particularly robust, impact-resistant cardboard box for risk-free transport and storage. A second label for documentation is enclosed.

### EN 1822:2009

ARTICLE	ARTICLE NUMBER	DIMENSIONS (W x L x D) [mm]	PLEAT DEPTH [mm]	NOMINAL VOLUME FLOW [m³/h]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	ARRESTANCE EFFICIENCY A(M)PS [%]
SF13-A-0305x0610x068x05-N13N	53417676	305 x 610 x 68	50	580	250	H13	ISO 35 H	≥ 99.95
SF13-A-0305x0762x068x05-N13N	53417677	305 x 762 x 68	50	730	250	H13	ISO 35 H	≥ 99.95
SF13-A-0457x0457x068x05-N13N	53417679	457 x 457 x 68	50	660	250	H13	ISO 35 H	≥ 99.95
SF13-A-0545x0545x068x05-N13N	53444903	545 x 545 x 68	50	950	250	H13	ISO 35 H	≥ 99.95
SF13-A-0610x0610x068x05-N13N	53417681	610 x 610 x 68	50	1,200	250	H13	ISO 35 H	≥ 99.95
SF13-A-0610x0762x068x05-N13N	53417683	610 x 762 x 68	50	1,500	250	H13	ISO 35 H	≥ 99.95
SF13-A-0610x1220x068x05-N13N	53417686	610 x 1,220 x 68	50	2,400	250	H13	ISO 35 H	≥ 99.95
SF13-A-1220x1220x068x05-N13N	53417688	1,220 x 1,220 x 68	50	5,000	250	H13	ISO 35 H	≥ 99.95

Subject to technical changes.



# EPA | HEPA | ULPA FILTERS

## ALUMINUM FRAME | CONSTRUCTION DEPTHS 68 + 88 MM | HEPA

SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Recommended final pressure drop	600 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	Extruded aluminum profile, anodized
Seal	Semicircular PU profile, endlessly foamed
Protection grids	On both sides, steel grid, powder-coated



### Delivery notes

All standard sizes are packed in watertight foil and a particularly robust, impact-resistant cardboard box for risk-free transport and storage. A second label for documentation is enclosed.

### EN 1822:2009

ARTICLE	ARTICLE NUMBER	DIMENSIONS (W x L x D) [mm]	PLEAT DEPTH [mm]	NOMINAL VOLUME FLOW [m <sup>3</sup> /h]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	ARRESTANCE EFFICIENCY /MPPS [%]
SF14-A-0305x0305x068x05-N13N	53411760	305 x 305 x 68	50	135	120	H14	ISO 45 H	≥ 99,995
SF14-A-0305x0305x088x07-N13N	53411849	305 x 305 x 88	70	135	90	H14	ISO 45 H	≥ 99,995
SF14-A-0305x0610x068x05-N13N	53411816	305 x 610 x 68	50	280	120	H14	ISO 45 H	≥ 99,995
SF14-A-0305x0610x088x07-N13N	53423973	305 x 610 x 88	70	300	90	H14	ISO 45 H	≥ 99,995
SF14-A-0610x0610x068x05-N13N	53411822	610 x 610 x 68	50	600	120	H14	ISO 45 H	≥ 99,995
SF14-A-0610x0610x088x07-N13N	53411851	610 x 610 x 88	70	600	90	H14	ISO 45 H	≥ 99,995
SF14-A-0610x0915x068x05-N13N	53411834	610 x 915 x 68	50	900	120	H14	ISO 45 H	≥ 99,995
SF14-A-0610x1220x068x05-N13N	53411835	610 x 1,220 x 68	50	1,200	120	H14	ISO 45 H	≥ 99,995
SF14-A-0610x1220x088x07-N13N	53411853	610 x 1,220 x 88	70	1,200	90	H14	ISO 45 H	≥ 99,995
SF14-A-0610x1525x068x05-N13N	53411836	610 x 1,525 x 68	50	1,500	120	H14	ISO 45 H	≥ 99,995
SF14-A-0610x1525x088x07-N13N	53411854	610 x 1,525 x 88	70	1,500	90	H14	ISO 45 H	≥ 99,995
SF14-A-0610x1830x068x05-N13N	53411837	610 x 1,830 x 68	50	1,800	120	H14	ISO 45 H	≥ 99,995
SF14-A-0610x1830x088x07-N13N	53411855	610 x 1,830 x 88	70	1,800	90	H14	ISO 45 H	≥ 99,995
SF14-A-0762x1220x068x05-N13N	53411842	762 x 1,220 x 68	50	1,500	120	H14	ISO 45 H	≥ 99,995
SF14-A-0762x1220x088x07-N13N	53411858	762 x 1,220 x 88	70	1,500	90	H14	ISO 45 H	≥ 99,995
SF14-A-0762x1830x068x05-N13N	53411844	762 x 1,830 x 68	50	2,250	120	H14	ISO 45 H	≥ 99,995
SF14-A-0915x1220x068x05-N13N	53411846	915 x 1,220 x 68	50	1,800	120	H14	ISO 45 H	≥ 99,995
SF14-A-0915x1220x088x07-N13N	53427337	915 x 1,220 x 88	70	1,800	90	H14	ISO 45 H	≥ 99,995
SF14-A-0915x1830x068x05-N13N	53411848	915 x 1,830 x 68	50	2,700	120	H14	ISO 45 H	≥ 99,995
SF14-A-0545x0545x068x05-N13N	53417689	545 x 545 x 68	50	480	120	H14	ISO 45 H	≥ 99,995

Subject to technical changes.

# EPA | HEPA | ULPA FILTERS

## ALUMINUM FRAME | CONSTRUCTION DEPTH 78 MM | HEPA



SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Recommended final pressure drop	600 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	Extruded aluminum profile, anodized
Seal	Semicircular PU profile, endlessly foamed
Protection grids	On both sides, steel grid, powder-coated

### Application

Viledon® HEPA filters of filter classes H13 + H14 are used in intake and recirculating air filtration for cleanrooms and in laminar flow boxes with ultra-stringent requirements for clean air and sterility, e.g.

- in sophisticated air-conditioning applications (operating theatres/intensive care units in hospitals and medical institutes, pharmacies, sterile rooms, labs, research centers, etc.),
- in sensitive industrial processes (pharmaceuticals, biotechnology, chemicals, optics, food/beverage, micro-electronics, etc.),
- in ceiling outlets and modules for flexible cleanroom systems.

### Delivery notes

All standard sizes are packed in watertight foil and a particularly robust, impact-resistant cardboard box for risk-free transport and storage. A second label for documentation is enclosed.

### EN 1822:2009

ARTICLE	DIMENSIONS (W × L × D) [mm]	PLEAT DEPTH [mm]	NOMINAL VOLUME FLOW [m³/h]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	ARRESTANCE EFFICIENCY MPPS [%]
SF13-A-0305x0305x078x06-N13N	305 × 305 × 78	60	290	210	H13	ISO 35 H	≥ 99,95
SF13-A-0305x0457x078x06-N13N	305 × 457 × 78	60	420	210	H13	ISO 35 H	≥ 99,95
SF13-A-0305x0610x078x06-N13N	305 × 610 × 78	60	600	210	H13	ISO 35 H	≥ 99,95
SF13-A-0305x0762x078x06-N13N	305 × 762 × 78	60	750	210	H13	ISO 35 H	≥ 99,95
SF13-A-0305x0915x078x06-N13N	305 × 915 × 78	60	900	210	H13	ISO 35 H	≥ 99,95
SF13-A-0305x1120x078x06-N13N	305 × 1,120 × 78	60	1,200	210	H13	ISO 35 H	≥ 99,95
SF13-A-0457x0457x078x06-N13N	457 × 457 × 78	60	680	210	H13	ISO 35 H	≥ 99,95
SF13-A-0457x0610x078x06-N13N	457 × 610 × 78	60	900	210	H13	ISO 35 H	≥ 99,95
SF13-A-0545x0545x078x06-N13N	545 × 545 × 78	60	1,000	210	H13	ISO 35 H	≥ 99,95
SF13-A-0545x1155x078x06-N13N	545 × 1,155 × 78	60	2,000	210	H13	ISO 35 H	≥ 99,95
SF-13A-0575x0575x078x06xN13N	575 × 575 × 78	60	1,070	210	H13	ISO 35 H	≥ 99,95
SF13-A-0610x0610x078x06-N13N	610 × 610 × 78	60	1,200	210	H13	ISO 35 H	≥ 99,95
SF13-A-0610x0762x078x06-N13N	610 × 762 × 78	60	1,500	210	H13	ISO 35 H	≥ 99,95
SF13-A-0610x0915x078x06-N13N	610 × 915 × 78	60	1,800	210	H13	ISO 35 H	≥ 99,95
SF13-A-0610x1220x078x06-N13N	610 × 1,220 × 78	60	2,400	210	H13	ISO 35 H	≥ 99,95
SF13-A-0610x1525x078x06-N13N	610 × 1,525 × 78	60	3,000	210	H13	ISO 35 H	≥ 99,95
SF13-A-0610x1830x078x06-N13N	610 × 1,830 × 78	60	3,600	210	H13	ISO 35 H	≥ 99,95
SF13-A-0762x0762x078x06-N13N	762 × 762 × 78	60	1,900	210	H13	ISO 35 H	≥ 99,95
SF13-A-0762x0915x078x06-N13N	762 × 915 × 78	60	2,250	210	H13	ISO 35 H	≥ 99,95
SF13-A-0762x1220x078x06-N13N	762 × 1,220 × 78	60	3,000	210	H13	ISO 35 H	≥ 99,95
SF13-A-0762x1525x078x06-N13N	762 × 1,525 × 78	60	3,750	210	H13	ISO 35 H	≥ 99,95
SF13-A-0762x1830x078x06-N13N	762 × 1,830 × 78	60	4,500	210	H13	ISO 35 H	≥ 99,95
SF13-A-0915x0915x078x06-N13N	915 × 915 × 78	60	2,700	210	H13	ISO 35 H	≥ 99,95
SF13-A-0915x1220x078x06-N13N	915 × 1,220 × 78	60	3,600	210	H13	ISO 35 H	≥ 99,95
SF13-A-0915x1525x078x06-N13N	915 × 1,525 × 78	60	4,500	210	H13	ISO 35 H	≥ 99,95
SF13-A-0915x1830x078x06-N13N	915 × 1,830 × 78	60	5,400	210	H13	ISO 35 H	≥ 99,95

Subject to technical changes.





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## ALUMINUM FRAME | CONSTRUCTION DEPTH 78 MM | HEPA

SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Recommended final pressure drop	600 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	Extruded aluminum profile, anodized
Seal	Semicircular PU profile, endlessly foamed
Protection grids	On both sides, steel grid, powder-coated



### Features and benefits

- The filter media used are high-arrestance micro-glass-fiber papers.
- The MiniPleat technology employed ensures flow-friendly geometry and equidistance of the pleats, with homogeneous media velocity coupled with a very low pressure drop. This means particularly cost-efficient and dependable operation, plus a quasi-laminar outflow.
- Each filter element is tested using state-of-the-art scanning equipment for arrestance efficiency and leakproofing in accordance with EN 1822, and delivered together with the corresponding test certificate.
- The frame consists of extruded, anodized aluminum and is extremely solid and moisture-resistant.
- Easy handling and mounting thanks to high twist strength.
- The filter elements feature protection grids on both sides made of powdercoated expanded metal.

### Delivery notes

All standard sizes are packed in watertight foil and a particularly robust, impact-resistant cardboard box for risk-free transport and storage. A second label for documentation is enclosed.

### EN 1822:2009

ARTICLE	DIMENSIONS (W x L x D) [mm]	PLEAT DEPTH [mm]	NOMINAL VOLUME FLOW [m <sup>3</sup> /h]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	ARRESTANCE EFFICIENCY MPPS [%]
SF14-A-0305x0305x078x06-N13N	305 x 305 x 78	60	135	100	H14	ISO 45 H	≥ 99.995
SF14-A-0305x0457x078x06-N13N	305 x 457 x 78	60	200	100	H14	ISO 45 H	≥ 99.995
SF14-A-0305x0610x078x06-N13N	305 x 610 x 78	60	280	100	H14	ISO 45 H	≥ 99.995
SF14-A-0305x0762x078x06-N13N	305 x 762 x 78	60	360	100	H14	ISO 45 H	≥ 99.995
SF14-A-0305x0915x078x06-N13N	305 x 915 x 78	60	430	100	H14	ISO 45 H	≥ 99.995
SF14-A-0305x1120x078x06-N13N	305 x 1,120 x 78	60	600	100	H14	ISO 45 H	≥ 99.995
SF14-A-0457x0457x078x06-N13N	457 x 457 x 78	60	335	100	H14	ISO 45 H	≥ 99.995
SF14-A-0457x0610x078x06-N13N	457 x 610 x 78	60	450	100	H14	ISO 45 H	≥ 99.995
SF14-A-0545x0545x078x06-N13N	545 x 545 x 78	60	500	100	H14	ISO 45 H	≥ 99.995
SF14-A-0545x1155x078x06-N13N	545 x 1,155 x 78	60	1,000	100	H14	ISO 45 H	≥ 99.995
SF14-A-0610x0610x078x06-N13N	610 x 610 x 78	60	600	100	H14	ISO 45 H	≥ 99.995
SF14-A-0610x0762x078x06-N13N	610 x 762 x 78	60	750	100	H14	ISO 45 H	≥ 99.995
SF14-A-0610x0915x078x06-N13N	610 x 915 x 78	60	900	100	H14	ISO 45 H	≥ 99.995
SF14-A-0610x1220x078x06-N13N	610 x 1,220 x 78	60	1,200	100	H14	ISO 45 H	≥ 99.995
SF14-A-0610x1525x078x06-N13N	610 x 1,525 x 78	60	1,500	100	H14	ISO 45 H	≥ 99.995
SF14-A-0610x1830x078x06-N13N	610 x 1,830 x 78	60	1,800	100	H14	ISO 45 H	≥ 99.995
SF14-A-0762x0762x078x06-N13N	762 x 762 x 78	60	950	100	H14	ISO 45 H	≥ 99.995
SF14-A-0762x0915x078x06-N13N	762 x 915 x 78	60	1,125	100	H14	ISO 45 H	≥ 99.995
SF14-A-0762x1220x078x06-N13N	762 x 1,220 x 78	60	1,500	100	H14	ISO 45 H	≥ 99.995
SF14-A-0762x1525x078x06-N13N	762 x 1,525 x 78	60	1,875	100	H14	ISO 45 H	≥ 99.995
SF14-A-0762x1830x078x06-N13N	762 x 1,830 x 78	60	2,250	100	H14	ISO 45 H	≥ 99.995
SF14-A-0915x0915x078x06-N13N	915 x 915 x 78	60	1,350	100	H14	ISO 45 H	≥ 99.995
SF14-A-0915x1220x078x06-N13N	915 x 1,220 x 78	60	1,800	100	H14	ISO 45 H	≥ 99.995
SF14-A-0915x1525x078x06-N13N	915 x 1,525 x 78	60	2,250	100	H14	ISO 45 H	≥ 99.995
SF14-A-0915x1830x078x06-N13N	915 x 1,830 x 78	60	2,700	100	H14	ISO 45 H	≥ 99.995

Subject to technical changes.

# EPA | HEPA | ULPA FILTERS

ALUMINUM FRAME | CONSTRUCTION DEPTH 150 MM |  
PLEAT DEPTH 50 MM | HEPA



SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Recommended final pressure drop	600 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	Extruded aluminum profile, anodized
Seal	Semicircular PU profile, endlessly foamed
Protection grids	On both sides, steel grid, powder-coated

## Application

Viledon® HEPA filters of filter classes H13 + H14 are used in intake and recirculating air filtration for cleanrooms and in laminar flow boxes with ultra-stringent requirements for clean air and sterility, e.g.

- in sophisticated air-conditioning applications (operating theatres / intensive care units in hospitals and medical institutes, pharmacies, sterile rooms, labs, research centers, etc.),
- in highly sensitive industrial processes (pharmaceuticals, biotechnology, chemicals, optics, food and beverage processing, micro-electronics, etc.),
- in ceiling outlets and modules for flexible cleanroom systems.

## Features and benefits

- The filter media used are high-arrestance micro-glass-fiber papers.
- The MiniPleat technology employed ensures flow-friendly geometry and equidistance of the pleats, with homogeneous media velocity coupled with a very low pressure drop. This means particularly cost-efficient and dependable operation plus a quasi-laminar outflow.
- Each filter element is tested using state-of-the-art scanning equipment for arrestance efficiency and leakproofing in accordance with EN 1822, and delivered together with the corresponding test certificate.
- The frame consists of extruded, anodized aluminum and is extremely solid and moisture-resistant.

## Delivery notes

All standard sizes are packed in watertight foil and a particularly robust, impact-resistant cardboard box for risk-free transport and storage. A second label for documentation is enclosed.

## EN 1822:2009

ARTICLE	DIMENSIONS (W x L x D) [mm]	PLEAT DEPTH [mm]	NOMINAL VOLUME FLOW [m³/h]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	ARRESTANCE EFFICIENCY MPPS [%]
SF13-A-0305x0305x150x05-N13N	305 x 305 x 150	50	270	250	H13	ISO 35 H	≥ 99.95
SF13-A-0305x0457x150x05-N13N	305 x 457 x 150	50	420	250	H13	ISO 35 H	≥ 99.95
SF13-A-0305x0610x150x05-N13N	305 x 610 x 150	50	580	250	H13	ISO 35 H	≥ 99.95
SF13-A-0305x0762x150x05-N13N	305 x 762 x 150	50	730	250	H13	ISO 35 H	≥ 99.95
SF13-A-0305x0915x150x05-N13N	305 x 915 x 150	50	900	250	H13	ISO 35 H	≥ 99.95
SF13-A-0457x0457x150x05-N13N	457 x 457 x 150	50	660	250	H13	ISO 35 H	≥ 99.95
SF13-A-0457x0610x150x05-N13N	457 x 610 x 150	50	900	250	H13	ISO 35 H	≥ 99.95
SF13-A-0610x0610x150x05-N13N	610 x 610 x 150	50	1,200	250	H13	ISO 35 H	≥ 99.95
SF13-A-0610x0762x150x05-N13N	610 x 762 x 150	50	1,500	250	H13	ISO 35 H	≥ 99.95
SF13-A-0610x0915x150x05-N13N	610 x 915 x 150	50	1,800	250	H13	ISO 35 H	≥ 99.95
SF13-A-0610x1220x150x05-N13N	610 x 1,220 x 150	50	2,400	250	H13	ISO 35 H	≥ 99.95
SF13-A-0610x1525x150x05-N13N	610 x 1,525 x 150	50	3,000	250	H13	ISO 35 H	≥ 99.95
SF13-A-0610x1830x150x05-N13N	610 x 1,830 x 150	50	3,600	250	H13	ISO 35 H	≥ 99.95
SF13-A-0762x0762x150x05-N13N	762 x 762 x 150	50	1,900	250	H13	ISO 35 H	≥ 99.95
SF13-A-0762x0915x150x05-N13N	762 x 915 x 150	50	2,250	250	H13	ISO 35 H	≥ 99.95
SF13-A-0762x1220x150x05-N13N	762 x 1,220 x 150	50	3,000	250	H13	ISO 35 H	≥ 99.95
SF13-A-0762x1525x150x05-N13N	762 x 1,525 x 150	50	3,750	250	H13	ISO 35 H	≥ 99.95
SF13-A-0762x1830x150x05-N13N	762 x 1,830 x 150	50	4,500	250	H13	ISO 35 H	≥ 99.95
SF13-A-0915x0915x150x05-N13N	915 x 915 x 150	50	2,700	250	H13	ISO 35 H	≥ 99.95
SF13-A-0915x1220x150x05-N13N	915 x 1,220 x 150	50	3,600	250	H13	ISO 35 H	≥ 99.95
SF13-A-0915x1525x150x05-N13N	915 x 1,525 x 150	50	4,500	250	H13	ISO 35 H	≥ 99.95
SF13-A-0915x1830x150x05-N13N	915 x 1,830 x 150	50	5,400	250	H13	ISO 35 H	≥ 99.95

Subject to technical changes.



# EPA | HEPA | ULPA FILTERS

ALUMINUM FRAME | CONSTRUCTION DEPTH 150 MM |  
PLEAT DEPTH 50 MM | HEPA

SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Recommended final pressure drop	600 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	Extruded aluminum profile, anodized
Seal	Semicircular PU profile, endlessly foamed
Protection grids	On both sides, steel grid, powder-coated



- Viledon® HEPA filters are microbiologically inactive and meet all hygiene requirements of the German VDI Guideline 6022 "Hygiene requirements for HVAC systems and units".
- Easy handling and mounting thanks to high twist strength.
- The filter elements feature protection grids on both sides made of powdercoated expanded metal.

## Delivery notes

All standard sizes are packed in watertight foil and a particularly robust, impact-resistant cardboard box for risk-free transport and storage. A second label for documentation is enclosed.

## EN 1822:2009

ARTICLE	DIMENSIONS (W × L × D) [mm]	PLEAT DEPTH [mm]	NOMINAL VOLUME FLOW [m³/h]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	ARRESTANCE EFFICIENCY MPPS [%]
SF14-A-0305x0305x150x05-N13N	305 × 305 × 150	50	135	120	H14	ISO 45 H	≥ 99.995
SF14-A-0305x0457x150x05-N13N	305 × 457 × 150	50	200	120	H14	ISO 45 H	≥ 99.995
SF14-A-0305x0610x150x05-N13N	305 × 610 × 150	50	280	120	H14	ISO 45 H	≥ 99.995
SF14-A-0305x0762x150x05-N13N	305 × 762 × 150	50	360	120	H14	ISO 45 H	≥ 99.995
SF14-A-0305x0915x150x05-N13N	305 × 915 × 150	50	430	120	H14	ISO 45 H	≥ 99.995
SF14-A-0457x0457x150x05-N13N	457 × 457 × 150	50	335	120	H14	ISO 45 H	≥ 99.995
SF14-A-0457x0610x150x05-N13N	457 × 610 × 150	50	450	120	H14	ISO 45 H	≥ 99.995
SF14-A-0610x0610x150x05-N13N	610 × 610 × 150	50	600	120	H14	ISO 45 H	≥ 99.995
SF14-A-0610x0762x150x05-N13N	610 × 762 × 150	50	750	120	H14	ISO 45 H	≥ 99.995
SF14-A-0610x0915x150x05-N13N	610 × 915 × 150	50	900	120	H14	ISO 45 H	≥ 99.995
SF14-A-0610x1220x150x05-N13N	610 × 1,220 × 150	50	1,200	120	H14	ISO 45 H	≥ 99.995
SF14-A-0610x1525x150x05-N13N	610 × 1,525 × 150	50	1,500	120	H14	ISO 45 H	≥ 99.995
SF14-A-0610x1830x150x05-N13N	610 × 1,830 × 150	50	1,800	120	H14	ISO 45 H	≥ 99.995
SF14-A-0762x0762x150x05-N13N	762 × 762 × 150	50	950	120	H14	ISO 45 H	≥ 99.995
SF14-A-0762x0915x150x05-N13N	762 × 915 × 150	50	1,125	120	H14	ISO 45 H	≥ 99.995
SF14-A-0762x1220x150x05-N13N	762 × 1,220 × 150	50	1,500	120	H14	ISO 45 H	≥ 99.995
SF14-A-0762x1525x150x05-N13N	762 × 1,525 × 150	50	1,875	120	H14	ISO 45 H	≥ 99.995
SF14-A-0762x1830x150x05-N13N	762 × 1,830 × 150	50	2,250	120	H14	ISO 45 H	≥ 99.995
SF14-A-0915x0915x150x05-N13N	915 × 915 × 150	50	350	120	H14	ISO 45 H	≥ 99.995
SF14-A-0915x1220x150x05-N13N	915 × 1,220 × 150	50	1,800	120	H14	ISO 45 H	≥ 99.995
SF14-A-0915x1525x150x05-N13N	915 × 1,525 × 150	50	2,250	120	H14	ISO 45 H	≥ 99.995
SF14-A-0915x1830x150x05-N13N	915 × 1,830 × 150	50	2,700	120	H14	ISO 45 H	≥ 99.995

Subject to technical changes.

# EPA | HEPA | ULPA FILTERS

ALUMINUM FRAME | CONSTRUCTION DEPTH 150 MM |  
PLEAT DEPTH 125 MM | EPA



SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Recommended final pressure drop	600 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	Extruded aluminum profile, anodized
Seal	Semicircular PU profile, endlessly foamed
Protection grids	On both sides, steel grid, powder-coated

## Application

Viledon® high volume flow EPA filters are used in intake, exhaust and recirculating air filtration in cleanrooms in air-conditioning systems with stringent requirements for clean air quality and sterility, e.g.

- in sophisticated air-conditioning technology (operating theaters / intensive care units in hospitals and medical institutes, pharmacies, sterile rooms, labs, research centers, etc.),
- in highly sensitive industrial processes.

## Features and benefits

- The filter media used are high-arrestance micro-glass-fiber papers.
- The MiniPleat technology employed ensures flow-friendly geometry and equidistance of the pleats, with homogeneous media velocity coupled with a very low pressure drop. This means particularly cost-efficient and dependable operation plus a quasi-laminar outflow.
- The frame consists of extruded, anodized aluminum and is extremely solid and moisture-resistant.
- Viledon® HEPA filters are microbiologically inactive and meet all hygiene requirements of the German VDI Guideline 6022 “Hygiene requirements for HVAC systems and units”.
- Easy handling and mounting thanks to high twist strength.
- The filter elements feature protection grids on both sides made of powdercoated expanded metal.

## Delivery notes

All standard sizes are packed in watertight foil and a particularly robust, impact-resistant cardboard box for risk-free transport and storage. A second label for documentation is enclosed.

ARTICLE	DIMENSIONS (W × L × D) [mm]	PLEAT DEPTH [mm]	NOMINAL VOLUME FLOW [m³/h]	INITIAL PRESSURE DROP [Pa]	EN 1822:2009		
					FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	ARRESTANCE EFFICIENCY MPSS [%]
SF11-A-0305x0610x150x12-N13N-F58	305 × 610 × 150	125	750	140	E11	ISO 15 E	95
SF11-A-0457x0457x150x12-N13N-F58	457 × 457 × 150	125	850	140	E11	ISO 15 E	95
SF11-A-0610x0610x150x12-N13N-F58	610 × 610 × 150	125	1,500	140	E11	ISO 15 E	95

Subject to technical changes.



# EPA | HEPA | ULPA FILTERS

ALUMINUM FRAME | CONSTRUCTION DEPTH 150 MM |  
PLEAT DEPTH 125 MM | HEPA

SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Recommended final pressure drop	600 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	Extruded aluminum profile, anodized
Seal	Semicircular PU profile, endlessly foamed
Protection grids	On both sides, steel grid, powder-coated



## Application

Viledon® high volume flow HEPA filters are used in intake, exhaust and recirculating air filtration in cleanrooms in air-conditioning systems with ultra-stringent requirements for clean air quality and sterility, e.g.

- in sophisticated air-conditioning technology (operating theaters / intensive care units in hospitals and medical institutes, pharmacies, sterile rooms, labs, research centers, etc.),
- in highly sensitive industrial processes.

## Features and benefits

- The filter media used are high-arrestance micro-glass-fiber papers.
- The MiniPleat technology employed ensures flow-friendly geometry and equidistance of the pleats, with homogeneous media velocity coupled with a very low pressure drop. This means particularly cost-efficient and dependable operation plus a quasi-laminar outflow.
- The frame consists of extruded, anodized aluminum and is extremely solid and moisture-resistant.
- Viledon® HEPA filters are microbiologically inactive and meet all hygiene requirements of the German VDI Guideline 6022 “Hygiene requirements for HVAC systems and units”.
- Easy handling and mounting thanks to high twist strength.
- The filter elements feature protection grids on both sides made of powdercoated expanded metal.
- Each filter element is tested for leakproofing in accordance with EN 1822, and delivered together with the corresponding test certificate.

## Delivery notes

All standard sizes are packed in watertight foil and a particularly robust, impact-resistant cardboard box for risk-free transport and storage. A second label for documentation is enclosed.

## EN 1822:2009

ARTICLE	DIMENSIONS (W x L x D) [mm]	PLEAT DEPTH [mm]	NOMINAL VOLUME FLOW [m³/h]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	ARRESTANCE EFFICIENCY MPPS [%]
SF13-A-0305x0610x150x12-N13N-J58	305 x 610 x 150	125	860	250	H13	ISO 35 H	≥ 99.95
SF13-A-0457x0457x150x12-N13N-J58	457 x 457 x 150	125	950	250	H13	ISO 35 H	≥ 99.95
SF13-A-0610x0610x150x12-N13N-J58	610 x 610 x 150	125	1,750	250	H13	ISO 35 H	≥ 99.95
SF14-A-0305x0305x150x12-N13N-U36	305 x 305 x 150	125	450	250	H14	ISO 45 H	≥ 99.995
SF14-A-0305x0610x150x12-N13N-U36	305 x 610 x 150	125	950	250	H14	ISO 45 H	≥ 99.995
SF14-A-0457x0457x150x12-N13N-U36	457 x 457 x 150	125	1,100	250	H14	ISO 45 H	≥ 99.995
SF14-A-0610x0610x150x12-N13N-U36	610 x 610 x 150	125	2,000	250	H14	ISO 45 H	≥ 99.995

Subject to technical changes.

# EPA | HEPA | ULPA FILTERS

## ALUMINUM FRAME | CONSTRUCTION DEPTH 292 | EPA



SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Recommended final pressure drop	600 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	Extruded aluminum profile, anodized
Seal	Semicircular PU profile, endlessly foamed
Protection grids	On both sides, steel grid, powder-coated

### Application

Viledon® high volume flow EPA filters are used in intake, exhaust and recirculating air filtration in cleanrooms in air-conditioning systems with ultra-stringent requirements for clean air quality and sterility, e.g.

- in sophisticated air-conditioning technology (operating theaters / intensive care units in hospitals and medical institutes, pharmacies, sterile rooms, labs, research centers, etc.),
- in highly sensitive industrial processes (pharmaceuticals, biotechnology, chemicals, optics, food and beverage processing, micro-electronics, etc.).

### Features and benefits

- The filter media used are high-arrestance micro-glass-fiber papers.
- The MiniPleat technology employed ensures flow-friendly geometry and equidistance of the pleats, with homogeneous media velocity coupled with a very low pressure drop. This means particularly cost-efficient and dependable operation plus a quasi-laminar outflow.
- The frame consists of extruded, anodized aluminum and is extremely solid and moisture-resistant.
- Viledon® HEPA filters are microbiologically inactive and meet all hygiene requirements of the German VDI Guideline 6022 "Hygiene requirements for HVAC systems and units".
- Easy handling and mounting thanks to high twist strength.
- The filter elements feature protection grids on both sides made of powdercoated expanded metal.

### Delivery notes

All standard sizes are packed in watertight foil and a particularly robust, impact-resistant cardboard box for risk-free transport and storage. A second label for documentation is enclosed.

### EN 1822:2009

ARTICLE	DIMENSIONS (W x L x D) [mm]	PLEAT DEPTH [mm]	NOMINAL VOLUME FLOW [m³/h]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	ARRESTANCE EFFICIENCY MPPS [%]
SF11-A-0305x0610x292x20-N13N-F69	305 x 610 x 292	200	1,100	140	E11	ISO 15 E	≥ 95
SF11-A-0457x0457x292x20-N13N-F69	457 x 457 x 292	200	1,300	140	E11	ISO 15 E	≥ 95
SF11-A-0457x0610x292x20-N13N-F69	457 x 610 x 292	200	1,750	140	E11	ISO 15 E	≥ 95
SF11-A-0593x0593x292x20-N13N-F69	593 x 593 x 292	200	2,250	140	E11	ISO 15 E	≥ 95
SF11-A-0610x0610x292x20-N13N-F69	610 x 610 x 292	200	2,400	140	E11	ISO 15 E	≥ 95
SF11-A-0610x0762x292x20-N13N-F69	610 x 762 x 292	200	3,000	140	E11	ISO 15 E	≥ 95

Subject to technical changes.



# EPA | HEPA | ULPA FILTERS

## ALUMINUM FRAME | CONSTRUCTION DEPTH 292 MM | HEPA

SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Recommended final pressure drop	600 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	Extruded aluminum profile, anodized
Seal	Semicircular PU profile, endlessly foamed
Protection grids	On both sides, steel grid, powder-coated



### Application

Viledon® high volume flow HEPA filters are used in intake, exhaust and recirculating air filtration in cleanrooms in air-conditioning systems with ultra-stringent requirements for clean air quality and sterility, e.g.

- in sophisticated air-conditioning technology (operating theaters / intensive care units in hospitals and medical institutes, pharmacies, sterile rooms, labs, research centers, etc.),
- in highly sensitive industrial processes (pharmaceuticals, biotechnology, chemicals, optics, food and beverage processing, micro-electronics, etc.).

### Features and benefits

- The filter media used are high-arrestance micro-glass-fiber papers.
- The MiniPleat technology employed ensures flow-friendly geometry and equidistance of the pleats, with homogeneous media velocity coupled with a very low pressure drop. This means particularly cost-efficient and dependable operation plus a quasi-laminar outflow.
- Each filter element is tested for leakproofing in accordance with EN 1822, and delivered together with the corresponding test certificate.
- The frame consists of extruded, anodized aluminum and is extremely solid and moisture-resistant.
- Viledon® HEPA filters are microbiologically inactive and meet all hygiene requirements of the German VDI Guideline 6022 "Hygiene requirements for HVAC systems and units".
- Easy handling and mounting thanks to high twist strength.
- The filter elements feature protection grids on both sides made of powdercoated expanded metal.

### Delivery notes

All standard sizes are packed in watertight foil and a particularly robust, impact-resistant cardboard box for risk-free transport and storage. A second label for documentation is enclosed.

### EN 1822:2009

ARTICLE	DIMENSIONS (W × L × D) [mm]	PLEAT DEPTH [mm]	NOMINAL VOLUME FLOW [m³/h]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	ARRESTANCE EFFICIENCY/MPPS [%]
SF13-A-0305x0610x292x17-N13N-U42	305 × 610 × 292	175	1,250	250	H13	ISO 35 H	≥ 99,95
SF13-A-0457x0457x292x17-N13N-U42	457 × 457 × 292	175	1,400	250	H13	ISO 35 H	≥ 99,95
SF13-A-0457x0610x292x17-N13N-U42	457 × 610 × 292	175	1,950	250	H13	ISO 35 H	> 99,95
SF13-A-0593x0593x292x17-N13N-U42	593 × 593 × 292	175	2,450	250	H13	ISO 35 H	> 99,95
SF13-A-0610x0610x292x17-N13N-U42	610 × 610 × 292	175	2,600	250	H13	ISO 35 H	≥ 99,95
SF13-A-0610x0762x292x17-N13N-U42	610 × 762 × 292	175	3,250	250	H13	ISO 35 H	≥ 99,95
SF14-A-0305x0610x292x17-N13N-U42	305 × 610 × 292	175	1,100	230	H14	ISO 45 H	≥ 99,995
SF14-A-0457x0457x292x17-N13N-U42	457 × 457 × 292	175	1,300	230	H14	ISO 45 H	≥ 99,995
SF14-A-0457x0610x292x17-N13N-U42	457 × 610 × 292	175	1,750	230	H14	ISO 45 H	≥ 99,995
SF14-A-0593x0593x292x17-N13N-U42	593 × 593 × 292	175	2,250	230	H14	ISO 45 H	≥ 99,995
SF14-A-0610x0610x292x17-N13N-U42	610 × 610 × 292	175	2,400	230	H14	ISO 45 H	≥ 99,995
SF14-A-0610x0762x292x17-N13N-U42	610 × 762 × 292	175	3,000	230	H14	ISO 45 H	≥ 99,995

Subject to technical changes.



# EPA | HEPA | ULPA FILTERS



## ALUMINUM FRAME | CONSTRUCTION DEPTH 80 MM | SILGEL SEAL | HEPA



SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Recommended final pressure drop	600 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	Extruded aluminum profile, anodized
Seal	SilgelProtection grids: On both sides, steel grids, powder-coated; also available in a stainless steel version

### Application

Viledon® HEPA filters of filter class H14 are used in intake and recirculating air filtration for cleanrooms and in laminar flow boxes with ultra-stringent requirements for clean air and sterility, e. g.

- in sophisticated air-conditioning applications (operating theatres / intensive care units in hospitals and medical institutes, pharmacies, sterile rooms, labs, research centers, etc.),
- in highly sensitive industrial processes (pharmaceuticals, biotechnology, chemicals, optics, food / beverage, micro-electronics, etc.),
- in ceiling outlets and modules for flexible cleanroom systems.

### Features and benefits

- The filter media used are high-arrestance micro-glass-fiber papers.
- The MiniPleat technology employed ensures flow-friendly geometry and equidistance of the pleats, with homogeneous media velocity coupled with a very low pressure drop. This means particularly cost-efficient and dependable operation plus a quasi-laminar outflow.
- The frame consists of extruded, anodized aluminum and is extremely solid and moisture-resistant.
- Viledon® HEPA filters are microbiologically inactive and meet all hygiene requirements of the German VDI Guideline 6022 “Hygiene requirements for HVAC systems and units”.
- Easy handling and mounting thanks to high twist strength.
- The filter elements feature protection grids on both sides made of powdercoated expanded metal.
- Silgel seal for mounting systems with a sword profile.
- Each filter element is tested using state-of-the-art scanning equipment for arrestance efficiency and leakproofing in accordance with EN 1822, and delivered together with the corresponding test certificate.

### Delivery notes

All standard sizes are packed in watertight foil and a particularly robust, impact-resistant cardboard box for risk-free transport and storage. A second label for documentation is enclosed.

### EN 1822:2009

ARTICLE	DIMENSIONS (W x L x D) [mm]	PLEAT DEPTH [mm]	NOMINAL VOLUME FLOW [m³/h]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	ARRESTANCE EFFICIENCY MPPS [%]
SF14-A-0305x0305x080x05-F13N	305 x 305 x 80	50	135	120	H14	ISO 45 H	≥ 99,995
SF14-A-0305x0457x080x05-F13N	305 x 457 x 80	50	200	120	H14	ISO 45 H	≥ 99,995
SF14-A-0305x0610x080x05-F13N	305 x 610 x 80	50	280	120	H14	ISO 45 H	≥ 99,995
SF14-A-0305x0762x080x05-F13N	305 x 762 x 80	50	360	120	H14	ISO 45 H	≥ 99,995
SF14-A-0305x0915x080x05-F13N	305 x 915 x 80	50	430	120	H14	ISO 45 H	≥ 99,995
SF14-A-0457x0457x080x05-F13N	457 x 457 x 80	50	335	120	H14	ISO 45 H	≥ 99,995
SF14-A-0457x0610x080x05-F13N	457 x 610 x 80	50	450	120	H14	ISO 45 H	≥ 99,995
SF14-A-0610x0610x080x05-F13N	610 x 610 x 80	50	600	120	H14	ISO 45 H	≥ 99,995
SF14-A-0610x0762x080x05-F13N	610 x 762 x 80	50	750	120	H14	ISO 45 H	≥ 99,995
SF14-A-0610x0915x080x05-F13N	610 x 915 x 80	50	900	120	H14	ISO 45 H	≥ 99,995
SF14-A-0610x1220x080x05-F13N	610 x 1,220 x 80	50	1,200	120	H14	ISO 45 H	≥ 99,995
SF14-A-0610x1525x080x05-F13N	610 x 1,525 x 80	50	1,500	120	H14	ISO 45 H	≥ 99,995
SF14-A-0610x1830x080x05-F13N	610 x 1,830 x 80	50	1,800	120	H14	ISO 45 H	≥ 99,995
SF14-A-0762x0762x080x05-F13N	762 x 762 x 80	50	950	120	H14	ISO 45 H	≥ 99,995
SF14-A-0762x0915x080x05-F13N	762 x 915 x 80	50	1,125	120	H14	ISO 45 H	≥ 99,995
SF14-A-0762x1220x080x05-F13N	762 x 1,220 x 80	50	1,500	120	H14	ISO 45 H	≥ 99,995
SF14-A-0762x1525x080x05-F13N	762 x 1,525 x 80	50	1,875	120	H14	ISO 45 H	≥ 99,995
SF14-A-0762x1830x080x05-F13N	762 x 1,830 x 80	50	2,250	120	H14	ISO 45 H	≥ 99,995
SF14-A-0915x0915x080x05-F13N	915 x 915 x 80	50	1,350	120	H14	ISO 45 H	≥ 99,995
SF14-A-0915x1220x080x05-F13N	915 x 1,220 x 80	50	1,800	120	H14	ISO 45 H	≥ 99,995
SF14-A-0915x1525x080x05-F13N	915 x 1,525 x 80	50	2,250	120	H14	ISO 45 H	≥ 99,995
SF14-A-0915x1830x080x05-F13N	915 x 1,830 x 80	50	2,700	120	H14	ISO 45 H	≥ 99,995

Subject to technical changes.





# EPA | HEPA | ULPA FILTERS

ALUMINUM FRAME | CONSTRUCTION DEPTH 80 MM | SILGEL SEAL | ULPA

SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Recommended final pressure drop	600 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	Extruded aluminum profile, anodized
Seal	Silgel
Protection grids	On both sides, steel grids, powder-coated; also available in a stainless steel version



## Application

Viledon® ULPA filters of filter class U15 are used in intake and recirculating air filtration for cleanrooms and in laminar flow boxes with ultra-stringent requirements for clean air quality and sterility, e.g.

- in sophisticated air-conditioning applications (operating theatres / intensive care units in hospitals and medical institutes, pharmacies, sterile rooms, labs, research centers, etc.),
- in highly sensitive industrial processes (pharmaceuticals, biotechnology, chemicals, optics, food / beverage, micro-electronics, etc.),
- in ceiling outlets and modules for flexible cleanroom systems.

## Features and benefits

- The filter media used are high-arrestance micro-glass-fiber papers.

## Delivery notes

All standard sizes are packed in watertight foil and a particularly robust, impact-resistant cardboard box for risk-free transport and storage. A second label for documentation is enclosed.

- The MiniPleat technology employed ensures flow-friendly geometry and equidistance of the pleats, with homogeneous media velocity coupled with a very low pressure drop. This means particularly cost-efficient and dependable operation plus a quasi-laminar outflow.
- Each filter element is tested using state-of-the-art scanning equipment for arrestance efficiency and leakproofing in accordance with EN 1822, and delivered together with the corresponding test certificate.
- The frame consists of extruded, anodized aluminum and is extremely solid and moisture-resistant.
- Viledon® HEPA filters are microbiologically inactive and meet all hygiene requirements of the German VDI Guideline 6022 "Hygiene requirements for HVAC systems and units".
- Easy handling and mounting thanks to high twist strength.
- The filter elements feature protection grids on both sides made of powdercoated expanded metal.
- Silgel seal for mounting systems with a sword profile.

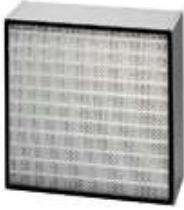
## EN 1822:2009

ARTICLE	DIMENSIONS (W x L x D) [mm]	PLEAT DEPTH [mm]	NOMINAL VOLUME FLOW [m³/h]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	ARRESTANCE EFFICIENCY MPPS [%]
SF15-A-0305x0305x080x05-F13N	305 x 305 x 80	50	135	140	U15	ISO 55 U	≥ 99,9995
SF15-A-0305x0457x080x05-F13N	305 x 457 x 80	50	200	140	U15	ISO 55 U	≥ 99,9995
SF15-A-0305x0610x080x05-F13N	305 x 610 x 80	50	280	140	U15	ISO 55 U	≥ 99,9995
SF15-A-0305x0762x080x05-F13N	305 x 762 x 80	50	360	140	U15	ISO 55 U	≥ 99,9995
SF15-A-0305x0915x080x05-F13N	305 x 915 x 80	50	430	140	U15	ISO 55 U	≥ 99,9995
SF15-A-0457x0457x080x05-F13N	457 x 457 x 80	50	335	140	U15	ISO 55 U	≥ 99,9995
SF15-A-0457x0610x080x05-F13N	457 x 610 x 80	50	450	140	U15	ISO 55 U	≥ 99,9995
SF15-A-0610x0610x080x05-F13N	610 x 610 x 80	50	600	140	U15	ISO 55 U	≥ 99,9995
SF15-A-0610x0762x080x05-F13N	610 x 762 x 80	50	750	140	U15	ISO 55 U	≥ 99,9995
SF15-A-0610x0915x080x05-F13N	610 x 915 x 80	50	900	140	U15	ISO 55 U	≥ 99,9995
SF15-A-0610x1220x080x05-F13N	610 x 1,220 x 80	50	1,200	140	U15	ISO 55 U	≥ 99,9995
SF15-A-0610x1525x080x05-F13N	610 x 1,525 x 80	50	1,500	140	U15	ISO 55 U	≥ 99,9995
SF15-A-0610x1830x080x05-F13N	610 x 1,830 x 80	50	1,800	140	U15	ISO 55 U	≥ 99,9995
SF15-A-0762x0762x080x05-F13N	762 x 762 x 80	50	950	140	U15	ISO 55 U	≥ 99,9995
SF15-A-0762x0915x080x05-F13N	762 x 915 x 80	50	1,125	140	U15	ISO 55 U	≥ 99,9995
SF15-A-0762x1220x080x05-F13N	762 x 1,220 x 80	50	1,500	140	U15	ISO 55 U	≥ 99,9995
SF15-A-0762x1525x080x05-F13N	762 x 1,525 x 80	50	1,875	140	U15	ISO 55 U	≥ 99,9995
SF15-A-0762x1830x080x05-F13N	762 x 1,830 x 80	50	2,250	140	U15	ISO 55 U	≥ 99,9995
SF15-A-0915x0915x080x05-F13N	915 x 915 x 80	50	1,350	140	U15	ISO 55 U	≥ 99,9995
SF15-A-0915x1220x080x05-F13N	915 x 1,220 x 80	50	1,800	140	U15	ISO 55 U	≥ 99,9995
SF15-A-0915x1525x080x05-F13N	915 x 1,525 x 80	50	2,250	140	U15	ISO 55 U	≥ 99,9995
SF15-A-0915x1830x080x05-F13N	915 x 1,830 x 80	50	2,700	140	U15	ISO 55 U	≥ 99,9995

Subject to technical changes.

# EPA | HEPA | ULPA FILTERS

## STEEL SHEET FRAME | CONSTRUCTION DEPTH 292 MM | EPA



SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Recommended final pressure drop	600 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	Steel sheeting, galvanized
Seal	Semicircular PU profile, endlessly foamed

### Application

Viledon® EPA filters of filter class E11 are used in intake, exhaust and recirculating air filtration in air-conditioning systems with stringent and ultra-stringent requirements for clean air quality and sterility, e.g.

- in sophisticated air-conditioning technology (operating theaters, intensive care units in hospitals, laboratories, cleanrooms, etc.),
- in sensitive and highly sensitive industrial processes.

### Features and benefits

- The filter media used are high-arrestance micro-glass-fiber papers.
- The MiniPleat technology employed ensures flow-friendly geometry and equidistance of the pleats, with homogeneous media velocity coupled with a very low pressure drop. This means particularly cost-efficient and dependable operation.
- Endlessly and homogeneously foamed-on polyurethane seal; on request available with flat seal.
- On request with protection grid.
- The frame consists of galvanized steel sheeting. The sturdy construction is moisture-resistant and provides a high degree of security against the growth of bacteria and fungi (thus permissible according to VDI 6022).

### Delivery notes

All standard sizes are packed in watertight foil and a particularly robust, impact-resistant cardboard box for risk-free transport and storage. A second label for documentation is enclosed.

### EN 1822:2009

ARTICLE	DIMENSIONS (W x L x D) [mm]	PLEAT DEPTH [mm]	NOMINAL VOLUME FLOW [m³/h]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	ARRESTANCE EFFICIENCY MPFS [%]
SF11-B-0288x0593x292x20-N10N	288 x 593 x 292	200	1,000	140	E11	ISO 15 E	≥ 95
SF11-B-0305x0305x292x20-N10N	305 x 305 x 292	200	550	140	E11	ISO 15 E	≥ 95
SF11-B-0305x0610x292x20-N10N	305 x 610 x 292	200	1,150	140	E11	ISO 15 E	≥ 95
SF11-B-0457x0457x292x20-N10N	457 x 457 x 292	200	1,300	140	E11	ISO 15 E	≥ 95
SF11-B-0457x0610x292x20-N10N	457 x 610 x 292	200	1,750	140	E11	ISO 15 E	≥ 95
SF11-B-0593x0593x292x20-N10N	593 x 593 x 292	200	2,270	140	E11	ISO 15 E	≥ 95
SF11-B-0610x0610x292x20-N10N	610 x 610 x 292	200	2,400	140	E11	ISO 15 E	≥ 95
SF11-B-0610x0762x292x20-N10N	610 x 762 x 292	200	3,000	140	E11	ISO 15 E	≥ 95

Subject to technical changes.



# EPA | HEPA | ULPA FILTERS

## PLASTIC FRAME | CONSTRUCTION DEPTHS 150 + 292 MM | EPA

SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper, highly resistant to moisture and oils
Bursting pressure	> 3,000 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	Halogen-free plastic; on request also with frame made from galvanized steel or stainless steel sheeting
Seal	Semicircular PU profile, endlessly foamed, on one side; on request with flat seal
Protection grids	Plastic, on both sides (N18N), with 200 mm pleat depth standard version without protection grid (N10N)



### Application

Viledon® EPA filters of filter class E11 are used for intake, exhaust and recirculating air filtration of ventilation systems with special requirements for clean air quality, e. g.

- sophisticated air-conditioning applications (hospitals, labs, clean-rooms, museums, etc.),
- sensitive industrial processes (pharmaceuticals, biotechnology, chemicals, optics, food and beverages, micro-electronics, etc.),
- downstream policing filters in dust removal applications.

### Features and benefits

- The patented thermal embossing technique ensures the optimum V-shaped geometry and equidistance of the pleats and therefore maximum, homogeneous air passage at a very low pressure drop. This results in a remarkably economical and reliable operation.
- The frame consists of halogen-free plastic and is exceptionally distortion-resistant, moisture-resistant and fully incinerable.
- Viledon® EPA filters are microbiologically inactive and meet all hygiene requirements of the German VDI Guideline 6022 "Hygiene requirements for HVAC systems and units".
- Easy handling and mounting, thanks to exceptionally low weight.
- The entire filter element is non-corroding and easy to dispose of, as it is metal-free.

### Delivery notes

All standard sizes are packed in watertight foil and a particularly robust, impact-resistant cardboard box for risk-free transport and storage. A second label for documentation is enclosed.

### EN 1822:2009

ARTICLE	ARTICLE NUMBER	DIMENSIONS (W × L × D) [mm]	PLEAT DEPTH [mm]	NOMINAL VOLUME FLOW [m³/h]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	ARRESTANCE EFFICIENCY/MPPS [%]
SF11-K-0305x0305x150x10-N18N-F45	53392321	305 × 305 × 150	100	440	160	E11	ISO 15 E	> 95
SF11-K-0457x0457x150x10-N10N-F45	53359319	457 × 457 × 150	100	1,100	160	E11	ISO 15 E	≥ 95
SF11-K-0610x0610x150x10-N10N-F45	53360528	610 × 610 × 150	100	2,000	160	E11	ISO 15 E	≥ 95
SF11-K-0610x0610x150x10-N18N-F45	53386630	610 × 610 × 150	100	2,000	160	E11	ISO 15 E	≥ 95
SF11-K-0610x0305x292x20-N10N-F60	53352684	610 × 305 × 292	200	1,400	160	E11	ISO 15 E	≥ 95
SF11-K-0610x0610x292x20-N10N-F60	53352648	610 × 610 × 292	200	3,000	160	E11	ISO 15 E	≥ 95
SF11-K-0610x0762x292x20-N10N-F60	53357238	610 × 762 × 292	200	4,000	160	E11	ISO 15 E	≥ 95
SF11-K-0610x0305x292x28-N18N-F60	53351145	610 × 305 × 292	280	1,600	160	E11	ISO 15 E	≥ 95
SF11-K-0610x0610x292x28-N18N-F60	53351144	610 × 610 × 292	280	3,400	160	E11	ISO 15 E	≥ 95
SF11-K-0610x0762x292x28-N18N-F60	53357518	610 × 762 × 292	280	4,300	160	E11	ISO 15 E	≥ 95

Subject to technical changes.

# EPA | HEPA | ULPA FILTERS

## PLASTIC FRAME | CONSTRUCTION DEPTHS 150 + 292 MM | HEPA



SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper, highly resistant to moisture and oils
Bursting pressure	> 3,000 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	Halogen-free plastic; on request also with frame made of galvanized steel sheeting or stainless steel sheeting
Seal	Semicircular PU profile, endlessly foamed, on one-side; on request with flat seal
Protection grids	Plastic on both sides (N 18N), with 200 mm pleat depth standard version without protection grid (N 10N)

### Application

Viledon® HEPA filters of filter classes H13 + H14 are used in intake, exhaust and recirculating air filtration in air-conditioning systems with ultra-stringent requirements for clean air quality and sterility, e.g.

- in sophisticated air-conditioning applications (operating theatres / intensive care units in hospitals, labs, cleanrooms etc.),
- in highly sensitive industrial processes (pharmaceuticals, biotechnology, chemicals, optics, food and beverages, micro-electronics, etc.),
- in the treatment of dangerous substances (asbestos disposal, heavy metals, carcinogenic dusts, etc.),
- in the preliminary filtration of turbomachinery.

### Features and benefits

- The patented thermal embossing process ensures the optimum V-shaped geometry and equidistance of the pleats, and therefore maximum, homogeneous air passage at a very low pressure drop. This results in a remarkably economical and reliable operation.
- Each filter element is leakproofed in accordance with EN 1822, and delivered together with the corresponding test certificate.
- The frame consists of halogen-free plastic and is exceptionally distortion-resistant, moisture-resistant and fully incinerable. The patented design provides a high degree of security against the growth of bacteria and fungi (permissible according to VDI 6022 in accordance with independent test certificates).

### Delivery notes

All standard sizes are packed in watertight foil and a particularly robust, impact-resistant cardboard box for risk-free transport and storage. A second label for documentation is enclosed.

### EN 1822:2009

ARTICLE	ARTICLE NUMBER	DIMENSIONS (W x L x D) [mm]	PLEAT DEPTH [mm]	NOMINAL VOLUME FLOW [m³/h]	INITIAL PRESSURE DROP [Pa]	IFA – DUST CLASS	FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	ARRESTANCE EFFICIENCY MPPS [%]
SF13-K-0305x0305x150x10-N18N-H45	53357911	305 x 305 x 150	100	325	220		H13	ISO 35 H	≥ 99.95
SF13-K-0305x0305x292x20-N10N-H60	53380609	305 x 305 x 292	200	500	250	H	H13	ISO 35 H	≥ 99.95
SF13-K-0305x0305x292x28-N18N-G60	53358438	305 x 305 x 292	280	700	250	H	H13	ISO 35 H	≥ 99.95
SF13-K-0457x0457x150x10-N18N-H45	53361285	457 x 457 x 150	100	800	220		H13	ISO 35 H	≥ 99.95
SF13-K-0457x0457x292x20-N10N-H60	53352681	457 x 457 x 292	200	1,300	250	H	H13	ISO 35 H	≥ 99.95
SF13-K-0457x0457x292x28-N18N-G60	53353934	457 x 457 x 292	280	1,800	250	H	H13	ISO 35 H	≥ 99.95
SF13-K-0575x0575x150x10-N18N-H45	53440647	575 x 575 x 150	100	1,400	220		H13	ISO 35 H	≥ 99.95
SF13-K-0592x0592x292x28-N18N-G60	53378568	592 x 592 x 292	280	3,000	250	H	H13	ISO 35 H	≥ 99.95
SF13-K-0610x0305x150x10-N18N-H45	53364637	610 x 305 x 150	100	700	220		H13	ISO 35 H	≥ 99.95
SF13-K-0610x0305x292x20-N10N-H60	53352680	610 x 305 x 292	200	1,100	250	H	H13	ISO 35 H	≥ 99.95
SF13-K-0610x0305x292x28-N18N-G60	53351143	610 x 305 x 292	280	1,550	250	H	H13	ISO 35 H	≥ 99.95
SF13-K-0610x0305x292x28-N18N-J60	53383118	610 x 305 x 292	280	1,800	330	H	H13	ISO 35 H	≥ 99.95
SF13-K-0610x0457x292x20-N10N-H60	53367419	610 x 457 x 292	200	1,800	250	H	H13	ISO 35 H	≥ 99.95

Subject to technical changes.



# EPA | HEPA | ULPA FILTERS

## PLASTIC FRAME | CONSTRUCTION DEPTHS 150 + 292 MM | HEPA

SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper, highly resistant to moisture and oils
Bursting pressure	> 3,000 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	Halogen-free plastic; on request also with frame made of galvanized steel sheeting or stainless steel sheeting
Seal	Semicircular PU profile, endlessly foamed, on one-side; on request with flat seal
Protection grids	Plastic on both sides (N 18N), with 200 mm pleat depth standard version without protection grid (N 10N)



- Easy handling and mounting thanks to exceptionally low weight and a continuous, homogeneously foamed-on polyurethane gasket.
- The entire filter element is non-corroding and easy to dispose of, as it is metal-free.
- Meets the requirements laid down in EN 60335-2-69 for filters being used in dust-eliminating machines and equipment of dust class “H” (see table).

### Delivery notes

All standard sizes are packed in watertight foil and a particularly robust, impact-resistant cardboard box for risk-free transport and storage. A second label for documentation is enclosed.

### EN 1822:2009

ARTICLE	ARTICLE NUMBER	DIMENSIONS (W x L x D) [mm]	PLEAT DEPTH [mm]	NOMINAL VOLUME FLOW [m <sup>3</sup> /h]	INITIAL PRESSURE DROP [Pa]	IFA – DUST CLASS	FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	ARRESTANCE EFFICIENCY [mpps]
SF13-K-0610x0457x292x28-N18N-G60	53363063	610 x 457 x 292	280	2,500	250	H	H13	ISO 35 H	≥ 99.95
SF13-K-0610x0610x150x10-N18N-H45	53392755	610 x 610 x 150	100	1,500	220		H13	ISO 35 H	≥ 99.95
SF13-K-0610x0610x292x20-N10N-H60	53352647	610 x 610 x 292	200	2,500	250	H	H13	ISO 35 H	≥ 99.95
SF13-K-0610x0610x292x28-N18N-G60	53351139	610 x 610 x 292	280	3,400	250	H	H13	ISO 35 H	≥ 99.95
SF13-K-0610x0610x292x28-N18N-J60	53383117	610 x 610 x 292	280	4,000	350	H	H13	ISO 35 H	≥ 99.95
SF13-K-0610x0762x292x20-N10N-H60	53373991	610 x 762 x 292	200	3,150	250	H	H13	ISO 35 H	≥ 99.95
SF13-K-0610x0762x292x28-N18N-G60	53373837	610 x 762 x 292	280	4,300	250	H	H13	ISO 35 H	≥ 99.95
SF14-K-0305x0305x292x28-N18N-J60	53390438	305 x 305 x 292	280	375	150		H14	ISO 45 H	≥ 99.995
SF14-K-0457x0457x292x28-N18N-J60	53381017	457 x 457 x 292	280	900	150		H14	ISO 45 H	≥ 99.995
SF14-K-0610x0305x292x28-N18N-J60	53367662	610 x 305 x 292	280	850	150		H14	ISO 45 H	≥ 99.995
SF14-K-0610x0457x292x28-N18N-J60	53358594	610 x 457 x 292	280	1,250	150		H14	ISO 45 H	≥ 99.995
SF14-K-0610x0610x292x28-N18N-J60	53353557	610 x 610 x 292	280	1,700	150		H14	ISO 45 H	≥ 99.995
SF14-K-0610x0762x292x28-N18N-J60	53361167	610 x 762 x 292	280	2,150	150		H14	ISO 45 H	≥ 99.995

Subject to technical changes.

# EPA | HEPA | ULPA FILTERS

## MDF FRAME | CONSTRUCTION DEPTH 78 MM | EPA



SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Recommended final pressure drop	600 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	MDF
Seal	Semicircular PU profile, endlessly foamed

### Application

Viledon® EPA filters of filter class E11 are used in intake, exhaust and recirculating air filtration in air-conditioning systems with stringent requirements for clean air quality and sterility, e. g.

- in sophisticated air-conditioning technology (operating theaters, intensive care units in hospitals, laboratories, cleanrooms, etc.),
- in sensitive industrial processes,
- as final filters in ceiling air outlets.

### Features and benefits

- The filter media used are high-arrestance micro-glass-fiber papers.
- The MiniPleat technology employed ensures flow-friendly geometry and equidistance of the pleats, with homogeneous media velocity coupled with a very low pressure drop. This means particularly cost-efficient and dependable operation plus a quasi-laminar outflow.
- The frame consists of MDF (medium-density fiber board) and is fully incinerable.
- The entire filter element is non-corroding and easy to dispose of, as it is metal-free.
- Endlessly and homogeneously foamed-on polyurethane seal; on request also available with a flat gasket.
- Protection grids on request.

### Delivery notes

Customized dimensions are available on request.

ARTICLE	DIMENSIONS (W x L x D) [mm]	PLEAT DEPTH [mm]	NOMINAL VOLUME FLOW [m³/h]	INITIAL PRESSURE DROP [Pa]	EN 1822:2009		
					FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	ARRESTANCE EFFICIENCY/MPPS [%]
SF11-M-0305x0305x078x05-N10N	305 x 305 x 78	50	220	160	E11	ISO 15 E	≥ 95
SF11-M-0305x0457x078x05-N10N	305 x 457 x 78	50	350	160	E11	ISO 15 E	≥ 95
SF11-M-0305x0610x078x05-N10N	305 x 610 x 78	50	480	160	E11	ISO 15 E	≥ 95
SF11-M-0305x0762x078x05-N10N	305 x 762 x 78	50	600	160	E11	ISO 15 E	≥ 95
SF11-M-0457x0457x078x05-N10N	457 x 457 x 78	50	550	160	E11	ISO 15 E	≥ 95
SF11-M-0457x0610x078x05-N10N	457 x 610 x 78	50	750	160	E11	ISO 15 E	≥ 95
SF11-M-0610x0610x078x05-N10N	610 x 610 x 78	50	1,000	160	E11	ISO 15 E	≥ 95
SF11-M-0610x0762x078x05-N10N	610 x 762 x 78	50	1,300	160	E11	ISO 15 E	≥ 95
SF11-M-0762x0762x078x05-N10N	762 x 762 x 78	50	1,640	160	E11	ISO 15 E	≥ 95

Subject to technical changes.



# EPA | HEPA | ULPA FILTERS

MDF FRAME | CONSTRUCTION DEPTH 78 MM | HEPA

SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Recommended final pressure drop	600 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	MDF
Seal	Semicircular PU profile, endlessly foamed



## Application

Viledon® HEPA filters of filter classes H13 + H14 are used in intake, exhaust and recirculating air filtration in air-conditioning systems with stringent requirements for clean air quality and sterility, e. g.

- in sophisticated air-conditioning technology (operating theaters, intensive care units in hospitals, laboratories, cleanrooms, etc.),
- in sensitive industrial processes,
- as final filters in ceiling air outlets.

## Features and benefits

- The filter media used are high-arrestance micro-glass-fiber papers.
- The MiniPleat technology employed ensures flow-friendly geometry and equidistance of the pleats, with homogeneous media velocity coupled with a very low pressure drop. This means particularly cost-efficient and dependable operation plus a quasi-laminar outflow.
- Each filter element is tested for leakproofing in accordance with EN 1822, and delivered together with the corresponding test certificate.
- The frame consists of MDF (medium-density fiber board) and is fully incinerable.
- The entire filter element is non-corroding and easy to dispose of, as it is metal-free.
- Endlessly and homogeneously foamed-on polyurethane seal; on request also available with a flat gasket.
- Protection grid on request.

## Delivery notes

Customized dimensions are available on request.

## EN 1822:2009

ARTICLE	DIMENSIONS (W x L x D) [mm]	PLEAT DEPTH [mm]	NOMINAL VOLUME FLOW [m³/h]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	ARRESTANCE EFFICIENCY A(MPPS) [%]
SF13-M-0305x0305x078x05-N10N	305 x 305 x 78	50	250	250	H13	ISO 35 H	≥ 99.95
SF13-M-0305x0457x078x05-N10N	305 x 457 x 78	50	400	250	H13	ISO 35 H	≥ 99.95
SF13-M-0305x0610x078x05-N10N	305 x 610 x 78	50	550	250	H13	ISO 35 H	≥ 99.95
SF13-M-0305x0762x078x05-N10N	305 x 762 x 78	50	700	250	H13	ISO 35 H	≥ 99.95
SF13-M-0457x0457x078x05-N10N	457 x 457 x 78	50	630	250	H13	ISO 35 H	≥ 99.95
SF13-M-0457x0610x078x05-N10N	457 x 610 x 78	50	850	250	H13	ISO 35 H	≥ 99.95
SF13-M-0610x0610x078x05-N10N	610 x 610 x 78	50	1,200	250	H13	ISO 35 H	≥ 99.95
SF13-M-0610x0762x078x05-N10N	610 x 762 x 78	50	1,500	250	H13	ISO 35 H	≥ 99.95
SF13-M-0762x0762x078x05-N10N	762 x 762 x 78	50	1,900	250	H13	ISO 35 H	≥ 99.95
SF14-M-0305x0305x078x05-N10N	305 x 305 x 78	50	120	125	H14	ISO 45 H	≥ 99.995
SF14-M-0305x0457x078x05-N10N	305 x 457 x 78	50	200	125	H14	ISO 45 H	≥ 99.995
SF14-M-0305x0610x078x05-N10N	305 x 610 x 78	50	280	125	H14	ISO 45 H	≥ 99.995
SF14-M-0305x0762x078x05-N10N	305 x 762 x 78	50	350	125	H14	ISO 45 H	≥ 99.995
SF14-M-0457x0457x078x05-N10N	457 x 457 x 78	50	335	125	H14	ISO 45 H	≥ 99.995
SF14-M-0457x0610x078x05-N10N	457 x 610 x 78	50	420	125	H14	ISO 45 H	≥ 99.995
SF14-M-0610x0610x078x05-N10N	610 x 610 x 78	50	600	125	H14	ISO 45 H	≥ 99.995
SF14-M-0610x0762x078x05-N10N	610 x 762 x 78	50	750	125	H14	ISO 45 H	≥ 99.995
SF14-M-0762x0762x078x05-N10N	762 x 762 x 78	50	900	125	H14	ISO 45 H	≥ 99.995

Subject to technical changes.

# EPA | HEPA | ULPA FILTERS

## MDF FRAME | CONSTRUCTION DEPTH 150 MM | EPA



SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Recommended final pressure drop	600 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	MDF
Seal	Semicircular PU profile, endlessly foamed

### Application

Viledon® EPA filters of filter class E11 are used in intake, exhaust and recirculating air filtration in air-conditioning systems with stringent requirements for clean air quality and sterility, e. g.

- in sophisticated air-conditioning technology (operating theaters, intensive care units in hospitals, laboratories, cleanrooms, etc.),
- in sensitive industrial processes,
- as final filters in ceiling air outlets.

### Features and benefits

- The filter media used are high-arrestance micro-glass-fiber papers.
- The MiniPleat technology employed ensures flow-friendly geometry and equidistance of the pleats, with homogeneous media velocity coupled with a very low pressure drop. This means particularly cost-efficient and dependable operation plus a quasi-laminar outflow.
- The frame consists of MDF (medium-density fiber board) and is fully incinerable.
- The entire filter element is non-corroding and easy to dispose of, as it is metal-free.
- Endlessly and homogeneously foamed-on polyurethane seal; on request also available with a flat gasket.
- Protection grid on request.

### Delivery notes

Customized dimensions are available on request.

### EN 1822:2009

ARTICLE	DIMENSIONS (W x L x D) [mm]	PLEAT DEPTH [mm]	NOMINAL VOLUME FLOW [m³/h]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	ARRESTANCE EFFICIENCY MPPS [%]
SF11-M-0305x0305x150x12-N10N	305 x 305 x 150	125	370	140	E11	ISO 15 E	≥ 95
SF11-M-0305x0305x292x20-N10N	305 x 305 x 292	200	500	140	E11	ISO 15 E	≥ 95
SF11-M-0305x0457x150x12-N10N	305 x 457 x 150	125	560	140	E11	ISO 15 E	≥ 95
SF11-M-0305x0610x150x12-N10N	305 x 610 x 150	125	750	140	E11	ISO 15 E	≥ 95
SF11-M-0305x0610x292x20-N10N	305 x 610 x 292	200	1,050	140	E11	ISO 15 E	≥ 95
SF11-M-0305x0762x150x12-N10N	305 x 762 x 150	125	950	140	E11	ISO 15 E	≥ 95
SF11-M-0457x0457x150x12-N10N	457 x 457 x 150	125	850	140	E11	ISO 15 E	≥ 95
SF11-M-0457x0457x292x20-N10N	457 x 457 x 292	200	1,200	140	E11	ISO 15 E	≥ 95
SF11-M-0457x0610x150x12-N10N	457 x 610 x 150	125	1,200	140	E11	ISO 15 E	≥ 95
SF11-M-0457x0610x292x20-N10N	457 x 610 x 292	200	1,650	140	E11	ISO 15 E	≥ 95
SF11-M-0593x0593x292x20-N10N	593 x 593 x 292	200	2,150	140	E11	ISO 15 E	≥ 95
SF11-M-0610x0610x150x12-N10N	610 x 610 x 150	125	1,500	140	E11	ISO 15 E	≥ 95
SF11-M-0610x0610x292x20-N10N	610 x 610 x 292	200	2,250	140	E11	ISO 15 E	≥ 95
SF11-M-0610x0762x150x12-N10N	610 x 762 x 150	125	2,100	140	E11	ISO 15 E	≥ 95
SF11-M-0610x0762x292x20-N10N	610 x 762 x 292	200	2,870	140	E11	ISO 15 E	≥ 95
SF11-M-0762x0762x150x12-N10N	762 x 762 x 150	125	2,600	140	E11	ISO 15 E	≥ 95

Subject to technical changes.





# EPA | HEPA | ULPA FILTERS

MDF FRAME | CONSTRUCTION DEPTH 150 MM | HEPA

SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Recommended final pressure drop	600 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	MDF
Seal	Semicircular PU profile, endlessly foamed



## Application

Viledon® HEPA filters of filter classes H13 + H14 are used in intake, exhaust and recirculating air filtration in air-conditioning systems with stringent requirements for clean air quality and sterility, e.g.

- in sophisticated air-conditioning technology (operating theaters, intensive care units in hospitals, laboratories, cleanrooms, etc.),
- in sensitive and highly sensitive industrial processes,
- as final filters in ceiling air outlets.

## Features and benefits

- The filter media used are high-arrestance micro-glass-fiber papers.
- The MiniPleat technology employed ensures flow-friendly geometry and equidistance of the pleats, with homogeneous media velocity coupled with a very low pressure drop. This means particularly cost-efficient and dependable operation plus a quasi-laminar outflow.
- Each filter element is tested for leak-proofing in accordance with EN 1822, and delivered together with the corresponding test certificate.
- The frame consists of MDF (medium-density fiber panel) and is fully incinerable.
- The entire filter element is non-corroding and easy to dispose of, as it is metal-free.
- Endlessly and homogeneously foamed-on polyurethane seal; on request also available with a flat gasket.
- Protection grids on request.

## Delivery notes

Customized dimensions are available on request.

## EN 1822:2009

ARTICLE	DIMENSIONS (W x L x D) [mm]	PLEAT DEPTH [mm]	NOMINAL VOLUME FLOW [m³/h]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	ARRESTANCE EFFICIENCY MPPS [%]
SF13-M-0305x0305x150x12-N10N	305 x 305 x 150	125	400	250	H13	ISO 35 H	≥ 99,95
SF13-M-0305x0305x292x20-N10N	305 x 305 x 292	200	470	250	H13	ISO 35 H	≥ 99,95
SF13-M-0305x0610x150x12-N10N	305 x 610 x 150	125	820	250	H13	ISO 35 H	≥ 99,95
SF13-M-0305x0610x292x20-N10N	305 x 610 x 292	200	1,000	250	H13	ISO 35 H	≥ 99,95
SF13-M-0457x0457x150x12-N10N	457 x 457 x 150	125	950	250	H13	ISO 35 H	≥ 99,95
SF13-M-0457x0457x292x20-N10N	457 x 457 x 292	200	1,100	250	H13	ISO 35 H	≥ 99,95
SF13-M-0610x0610x150x12-N10N	610 x 610 x 150	125	1,700	250	H13	ISO 35 H	≥ 99,95
SF13-M-0610x0610x292x20-N10N	610 x 610 x 292	200	2,000	250	H13	ISO 35 H	≥ 99,95
SF13-M-0610x0762x150x12-N10N	610 x 762 x 150	125	2,200	250	H13	ISO 35 H	≥ 99,95
SF13-M-0610x0762x292x20-N10N	610 x 762 x 292	200	2,750	250	H13	ISO 35 H	≥ 99,95
SF14-M-0305x0305x150x12-N10N	305 x 305 x 150	125	210	125	H14	ISO 45 H	≥ 99,995
SF14-M-0305x0305x292x20-N10N	305 x 305 x 292	200	270	160	H14	ISO 45 H	≥ 99,995
SF14-M-0305x0610x150x12-N10N	305 x 610 x 150	125	430	125	H14	ISO 45 H	≥ 99,995
SF14-M-0305x0610x292x20-N10N	305 x 610 x 292	200	600	160	H14	ISO 45 H	≥ 99,995
SF14-M-0457x0457x150x12-N10N	457 x 457 x 150	125	500	125	H14	ISO 45 H	≥ 99,995
SF14-M-0457x0457x292x20-N10N	457 x 457 x 292	200	680	160	H14	ISO 45 H	≥ 99,995
SF14-M-0610x0610x150x12-N10N	610 x 610 x 150	125	900	125	H14	ISO 45 H	≥ 99,995
SF14-M-0610x0610x292x20-N10N	610 x 610 x 292	200	1,280	160	H14	ISO 45 H	≥ 99,995
SF14-M-0610x0762x150x12-N10N	610 x 762 x 150	125	1,200	125	H14	ISO 45 H	≥ 99,995
SF14-M-0610x0762x292x20-N10N	610 x 762 x 292	200	1,620	160	H14	ISO 45 H	≥ 99,995

Subject to technical changes.

# EPA | HEPA | ULPA FILTERS

## HIGH VOLUME FLOW | CONSTRUCTION DEPTH 292 MM | HEPA



SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Recommended final pressure drop	600 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	Steel sheeting, galvanized; also available with a stainless steel frame
Seal	Semicircular PU profile, endlessly foamed, on one side

### Application

Viledon® high volume flow HEPA filters are used in intake, exhaust and recirculating air filtration in cleanrooms in air-conditioning systems with ultra-stringent requirements for clean air quality and sterility, e.g.

- in sophisticated air-conditioning technology (operating theaters / intensive care units in hospitals and medical institutes, pharmacies, sterile rooms, labs, research centers, etc.),
- in highly sensitive industrial processes (pharmaceuticals, biotechnology, chemicals, optics, food and beverage processing, micro-electronics, etc.).

### Features and benefits

- The filter media used are high-arrestance micro-glass-fiber papers.
- The MiniPleat technology employed, plus the V-shaped configuration of the pleat package, ensure a particularly large filtering area for maximum air flow rate per filter element together with homogeneous media velocity, coupled with a very low pressure drop. This means particularly cost-efficient and dependable operation with a very long lifetime.
- Each filter element is tested for leakproofing in accordance with EN 1822, and delivered together with the corresponding test certificate.
- The frame consists of galvanized steel or stainless steel sheeting and is extremely solid and moisture-resistant.
- Viledon® high volume flow HEPA filters are microbiologically inactive and meet all hygiene requirements of the German VDI Guidelin 6022 "Hygiene requirements for HVAC systems and units."
- A continuous and homogeneously foamed-on profile gasket made of polyurethane. Also available with a flat gasket on request.
- The elements feature recessed grips at the side and a gripping lug for easier handling and installation.

### Delivery notes

Also available as ULPA filter.  
Customized dimensions and variants available on request.

### EN 1822:2009

ARTICLE	ARTICLE NUMBER	DIMENSIONS (W x L x D) [mm]	NOMINAL VOLUME FLOW [m³/h]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	ARRESTANCE EFFICIENCY MPPS [%]
SF13-B-0288x0288x292/V06x25-N10N	53438538	288 x 288 x 292	850	250	H13	ISO 35 H	≥ 99.95
SF13-B-0288x0593x292/V06x25-N10N	53412638	288 x 593 x 292	1,800	250	H13	ISO 35 H	≥ 99.95
SF13-B-0305x0305x292/V06x25-N10N	53411980	305 x 305 x 292	1,000	250	H13	ISO 35 H	≥ 99.95
SF13-B-0305x0610x292/V06x25-N10N	53412052	305 x 610 x 292	2,000	250	H13	ISO 35 H	≥ 99.95
SF13-B-0593x0593x292/V12x25-N10N	53412644	593 x 593 x 292	3,600	250	H13	ISO 35 H	≥ 99.95
SF13-B-0610x0610x292/V10x25-N10N	53412060	610 x 610 x 292	3,400	250	H13	ISO 35 H	≥ 99.95
SF13-B-0610x0610x292/V12x25-N10N	53412054	610 x 610 x 292	4,000	250	H13	ISO 35 H	≥ 99.95
SF13-B-0610x0762x292/V14x25-N10N	53412056	610 x 762 x 292	4,700	250	H13	ISO 35 H	≥ 99.95
SF14-B-0288x0288x292/V06x25-N10N	53417294	288 x 288 x 292	850	320	H14	ISO 45 H	≥ 99.995
SF14-B-0288x0593x292/V06x25-N10N	53417294	288 x 593 x 292	1,800	320	H14	ISO 45 H	≥ 99.995
SF14-B-0305x0305x292/V06x25-N10N	53415772	305 x 305 x 292	1,000	320	H14	ISO 45 H	≥ 99.995
SF14-B-0305x0610x292/V06x25-N10N	53418697	305 x 610 x 292	2,000	320	H14	ISO 45 H	≥ 99.995
SF14-B-0593x0593x292/V12x25-N10N	53429101	593 x 593 x 292	3,600	320	H14	ISO 45 H	≥ 99.995
SF14-B-0610x0610x292/V12x25-N10N	53412194	610 x 610 x 292	4,000	320	H14	ISO 45 H	≥ 99.995
SF14-B-0610x0610x292/V12x25-N135-V27	53448417	610 x 610 x 292	5,000	450	H14	ISO 45 H	≥ 99.995

Subject to technical changes.



# EPA | HEPA | ULPA FILTERS

## CARTRIDGE | EPA

SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Recommended final pressure drop	600 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Sheathing	Expanded metal
Seal	Semicircular PU profile, foamed



### Application

Viledon® EPA cartridge filters offer in a minimized space highly efficient arrestance in a compactly dimensioned unit. They are used for various applications in medical technology and the pharmaceutical industry.

### Features and benefits

- High-arrestance micro-fiber papers are used as filter media.
- Compactly dimensioned unit for highly efficient arrestance in a minimized space.
- The sheathing of powder-coated expanded metal protect the filter media from damage.
- Endlessly and homogeneously foamed-on polyurethane seal.
- Viledon® EPA cartridge filters are microbiologically inactive and meet all hygiene requirements of the German VDI Guideline 6022 "Hygiene requirements for HVAC systems and units".

### Delivery notes

Customized dimensions and variants available on request.

Subject to technical changes.

ARTICLE	NOMINAL DIAMETER/ NOMINAL LENGTHS [mm]	NOMINAL VOLUME FLOW [m³/h]	INITIAL PRESSURE DROP [Pa]	EN 1822:2009		
				FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	ARRESTANCE EFFICIENCY MPPS [%]
SP11-A-0175x0175	175/175	130	120	E11	ISO 15 E	≥ 95
SP11-A-0175x0226	175/226	170	120	E11	ISO 15 E	≥ 95

# EPA | HEPA | ULPA FILTERS

## CARTRIDGE | HEPA



SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Recommended final pressure drop	600 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Sheathing	Expanded metal
Seal	Semicircular PU profile, foamed

### Application

Viledon® HEPA cartridge filters offer in a minimized space highly efficient arrestance in a compactly dimensioned unit. They are used for various applications in medical technology and the pharmaceutical industry.

### Features and benefits

- Each filter element is tested for leakproofing in accordance with EN 1822, and delivered together with the corresponding test certificate.
- High-arrestance micro-fiber papers are used as filter media.
- The sheathing of powder-coated expanded metal protect the filter media from damage.
- Endlessly and homogeneously foamed-on polyurethane seal
- Viledon® HEPA cartridge filters are microbiologically inactive and meet all hygiene requirements of the German VDI Guideline 6022 "Hygiene requirements for HVAC systems and units".

### Delivery notes

Customized dimensions and variants available on request.

ARTICLE	NOMINAL DIAMETER/ NOMINAL LENGTHS [mm]	NOMINAL VOLUME FLOW [m³/h]	INITIAL PRESSURE DROP [Pa]	EN 1822:2009		
				FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	ARRESTANCE EFFICIENCY MPPS [%]
SP13-A-0175x0175x033x02-N11N-J25	175/175	130	200	H13	ISO 35 H	≥ 99.95
SP13-A-0175x0226x033x02-N11N-J25	175/226	170	200	H13	ISO 35 H	≥ 99.95

Subject to technical changes.



# EPA | HEPA | ULPA FILTERS

## PLASTIC PLENUM HOOD | HEPA

SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Initial pressure drop	at 0.45 m/s 140 Pa
Recommended final pressure drop	600 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.



### Application

Viledon® HEPA filters / hood modules of filter class H14 are used for intake and recirculating air filtration of cleanrooms and flexible cleanroom systems requiring the highest clean air quality and sterility, e.g.

- in hospitals / medical institutes, pharmacies, sterile rooms, laboratories, research centers, etc.,
- in highly sensitive industrial processes (pharmaceuticals, biotechnology, chemicals, optics, food and beverage processing, micro-electronics, etc.).

### Features and benefits

- The filter media used are high-arrestance micro-glass-fiber papers.
- The MiniPleat technology employed ensures flow-friendly geometry and equidistance of the pleats, with homogeneous media velocity coupled with a very low pressure drop. This means particularly cost-efficient and dependable operation, and a quasi-laminar outflow.
- Each filter element is tested using state-of-the-art scanning equipment for arrestance efficiency and leakproofing in accordance with EN 1822, and delivered together with the corresponding test certificate.
- The frame is made of extruded anodized aluminium, with an airtight, cast-in polystyrene plenum hood on the upstream side. An integrated perforated deflector plate equalizes the incoming air flow (minimum filter size 610 × 610 mm). The sturdy construction is moisture-resistant and offers high security against the growth of bacteria and moulds.
- Easy handling and mounting, as the units are distortion-resistant and exceptionally lightweight.
- The filter / hood modules feature a protection grid on the clean air side made from powder-coated expanded metal and a connection for measuring aerosol/pressure drop.

### Delivery notes

On request also with integrated control and stop valve plus clean air side flat gasket.  
 Also available as ULPA filter of class U15.  
 Customized dimensions (then with metal hood) available on request.

### EN 1822:2009

ARTICLE	ARTICLE NUMBER	DIMENSIONS (W x L x D) (mm)	NOMINAL VOLUME FLOW (m³/h)	FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	ARRESTANCE EFFICIENCY MPPS [%]
SF14-A-0305x0610x150x05-Z02H-250x50	53417702	305 × 610 × 150	280	H14	ISO 45 H	≥ 99.995
SF14-A-0610x0610x150x05-Z02H-250x50	53412922	610 × 610 × 150	600	H14	ISO 45 H	≥ 99.995
SF14-A-0610x1220x150x05-Z02H-250x50	53413831	610 × 1,220 × 150	1,200	H14	ISO 45 H	≥ 99.995
SF14-A-0595x1205x150x05-Z02H-250x50	53480454	595 × 1,205 × 150	1,130	H14	ISO 45 H	≥ 99.995
SF14-A-0600x0600x150x05-Z02H-250x50		600 × 600 × 150	600	H14	ISO 45 H	≥ 99.995
SF14-A-0600x1210x150x05-Z02H-250x50		600 × 1,210 × 150	1,200	H14	ISO 45 H	≥ 99.995
SF14-A-0300x0600x150x05-Z02H-250x50		300 × 600 × 150	280	H14	ISO 45 H	≥ 99.995

Subject to technical changes.

# EPA | HEPA | ULPA FILTERS

## ACCESSORIES | CEILING AIR OUTLETS | WITH CEILING CONNECTION PROFILE



SPECIFICATIONS	
Outlet housing	Extruded, anodized aluminum frame and deep-drawn plastic plenum made of polystyrene and cast in an airtight configuration, with round connection piece on the side; on request also available with a metal plenum and a connection at the top / side.
Diffusor	As vortex flow outlet with adjustable air guide elements in powder-coated steel sheeting (RAL 9010), as a rectangular outlet with fixed-position guide fins in anodized aluminum or painted, as perforated-plate diffusor for low-turbulence displacement flow in anodized aluminum, painted, or stainless steel.
Filter elements	Associated filter elements must be ordered separately. The ceiling air outlets are suitable for Viledon® HEPA filters with a 68, 78 or 88 mm deep aluminum frame and a foamed-on seal.

### Application

Viledon® filter ceiling air outlets are used for intake and recirculating air filtration of cleanrooms and air-conditioning systems with ultra-stringent requirements for clean air quality and sterility, e.g.

- in sophisticated air-conditioning technology (operating theaters / intensive care units in hospitals and medical institutes, labs, pharmacies, sterile rooms, research centers, etc.),
- in highly sensitive industrial processes (pharmaceuticals, biotechnology, chemicals, optics, food and beverage processing, micro-electronics, etc.).

### Features and benefits

- The housings feature clamping devices for the filter elements and a port for measuring the raw gas concentration and the operational pressure drop.
- The construction is extremely solid and moisture-resistant.
- Viledon® ceiling air outlets meet all hygiene requirements of the German VDI Guideline 6022 “Hygiene requirements for HVAC systems and units”.
- Easy handling and mounting, thanks to low weight and high twist strength.
- Filter replacement, cleaning and maintenance can be simply performed from the clean air side.

### Delivery notes

On request also available with integrated control and stop valve.  
 Customized dimensions (then with metal plenum) and variants available on request.  
 Please order suitable filters as a separate item.

ARTICLE	ARTICLE NUMBER	DIMENSIONS (W×L×D) [mm]	DIMENSIONS OF MATCHING FILTERS (W×L×D) [mm]	DIFFUSOR	DIFFUSOR MATERIAL
SFDLA-CA-0380x0380x355-EV-0-200-0-T	53425088	380×380×355	305×305×68   78   88	Vortex flow outlet	Powder-coated steel (RAL 9010)
SFDLA-CA-0380x0685x380-LA-0-200-0-0	53424466	380×685×380	305×610×68   78   88	Rectangular outlet	Anodized aluminum
SFDLA-CA-0532x0532x390-LV-0-250-0-0	53427694	532×532×390	457×457×68   78   88	Rectangular outlet	Powder-coated steel (RAL 9010)
SFDLA-CA-0620x0620x410-EV-0-250-0-0	53427199	620×620×410	545×545×68   78   88	Vortex flow outlet	Powder-coated steel (RAL 9010)
SFDLA-CA--0685x0685x420-FX-0-250-0-0	53424467	685×685×420	610×610×68   78   88	Perforated-plate diffusor	Stainless steel
SFDLA-CA-0685x0990x430-LV-Z-250-0-0	53427696	685×990×430	610×915×68   78   88	Rectangular outlet	Powder-coated steel (RAL 9010)
SFDLA-CA-0685x1295x450-FX-0-250-0-0	53424468	685×1,295×450	610×1,220×68   78   88	Perforated-plate diffusor	Stainless steel
SFDLA-CA-0837x0837x450-LV-Z-250-0-0	53427698	837×0,837×450	762×762×68   78   88	Rectangular outlet	Powder-coated steel (RAL 9010)

Subject to technical changes.